

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628489

Luminaire Tested: **IFLD-L-SA7A-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

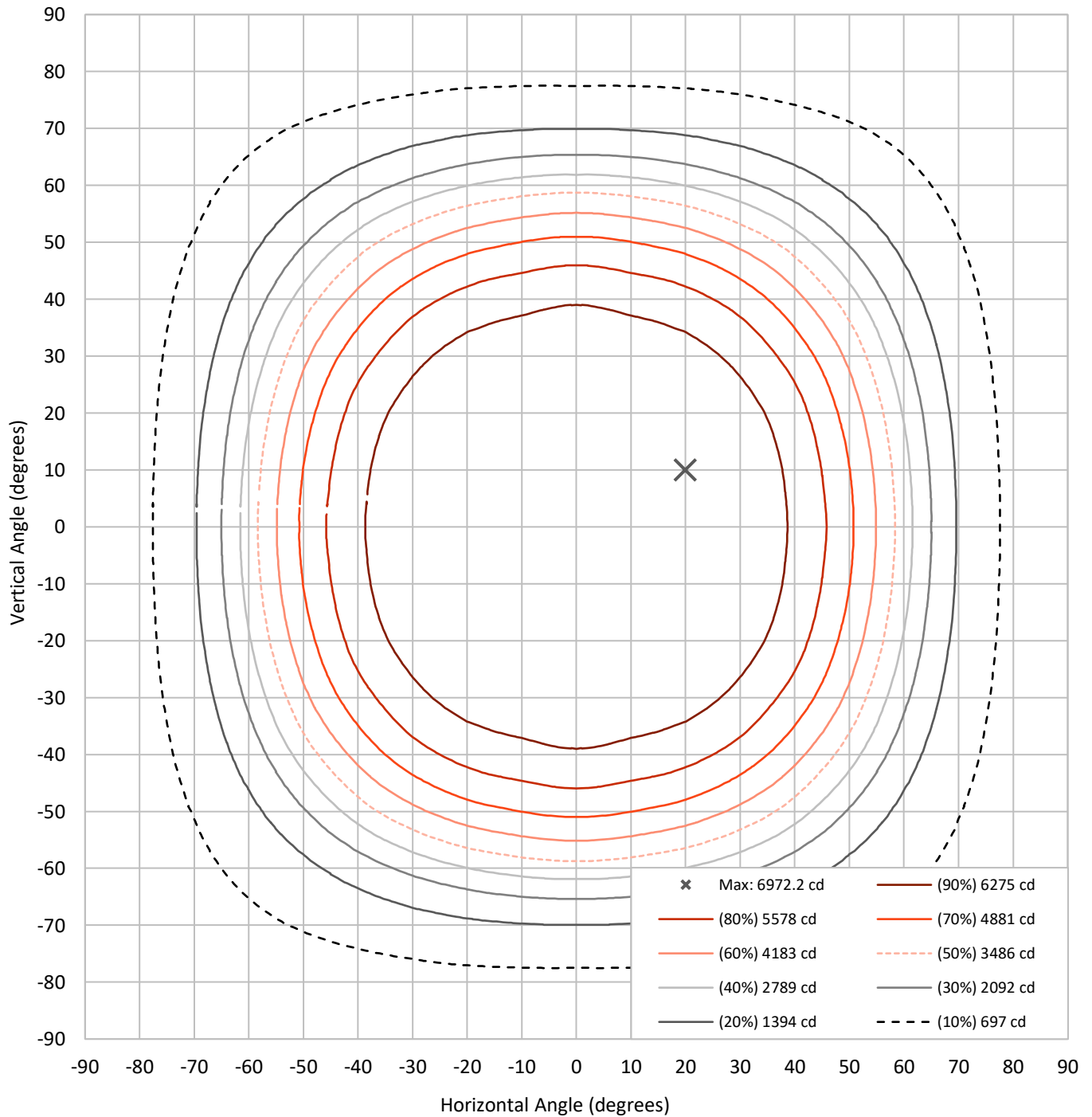
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21389.8 lumens	Max Intensity:	6972.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13125.2 lumens	Field Lumens:	15734.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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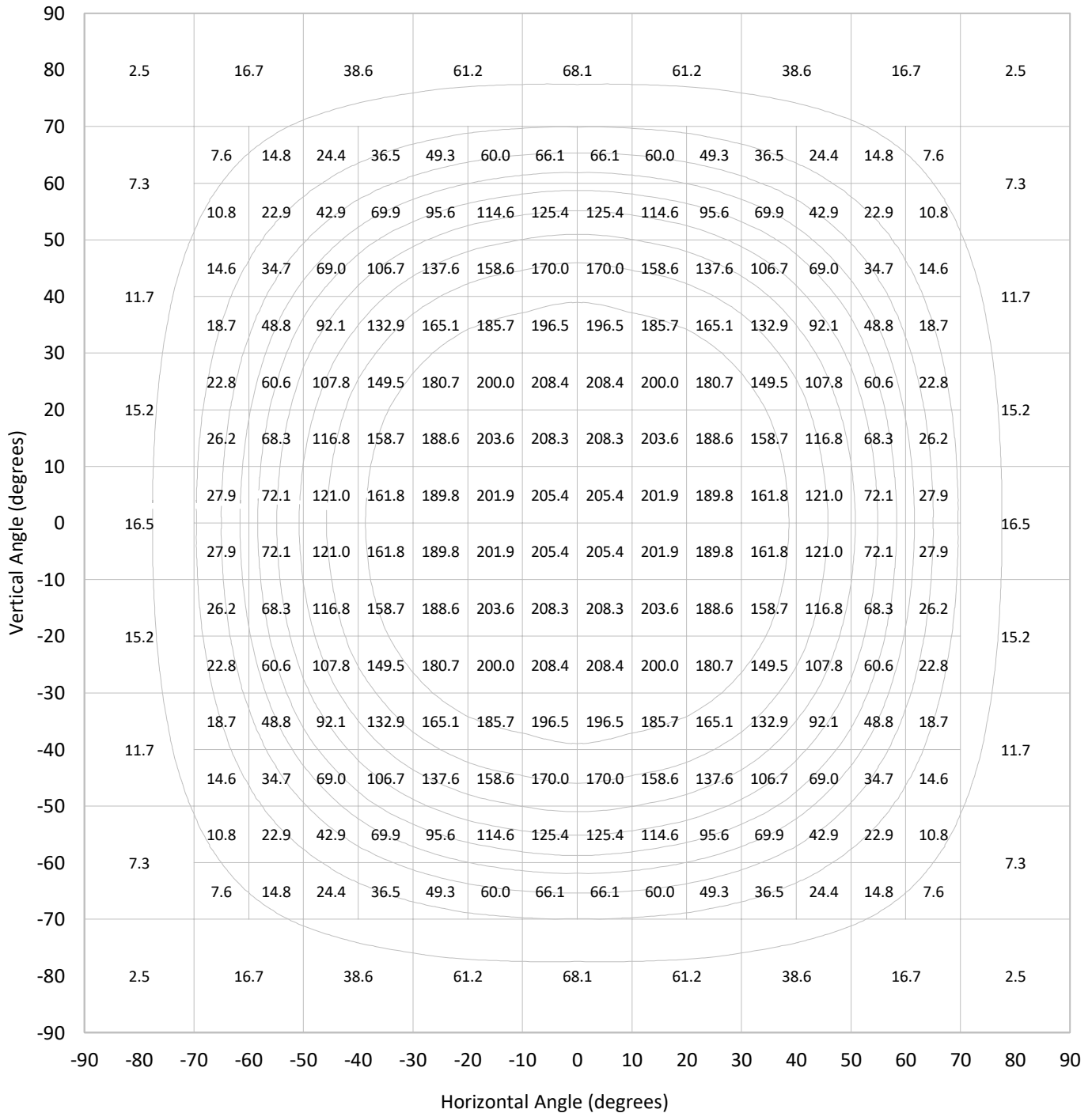
Iso-Candela Plot





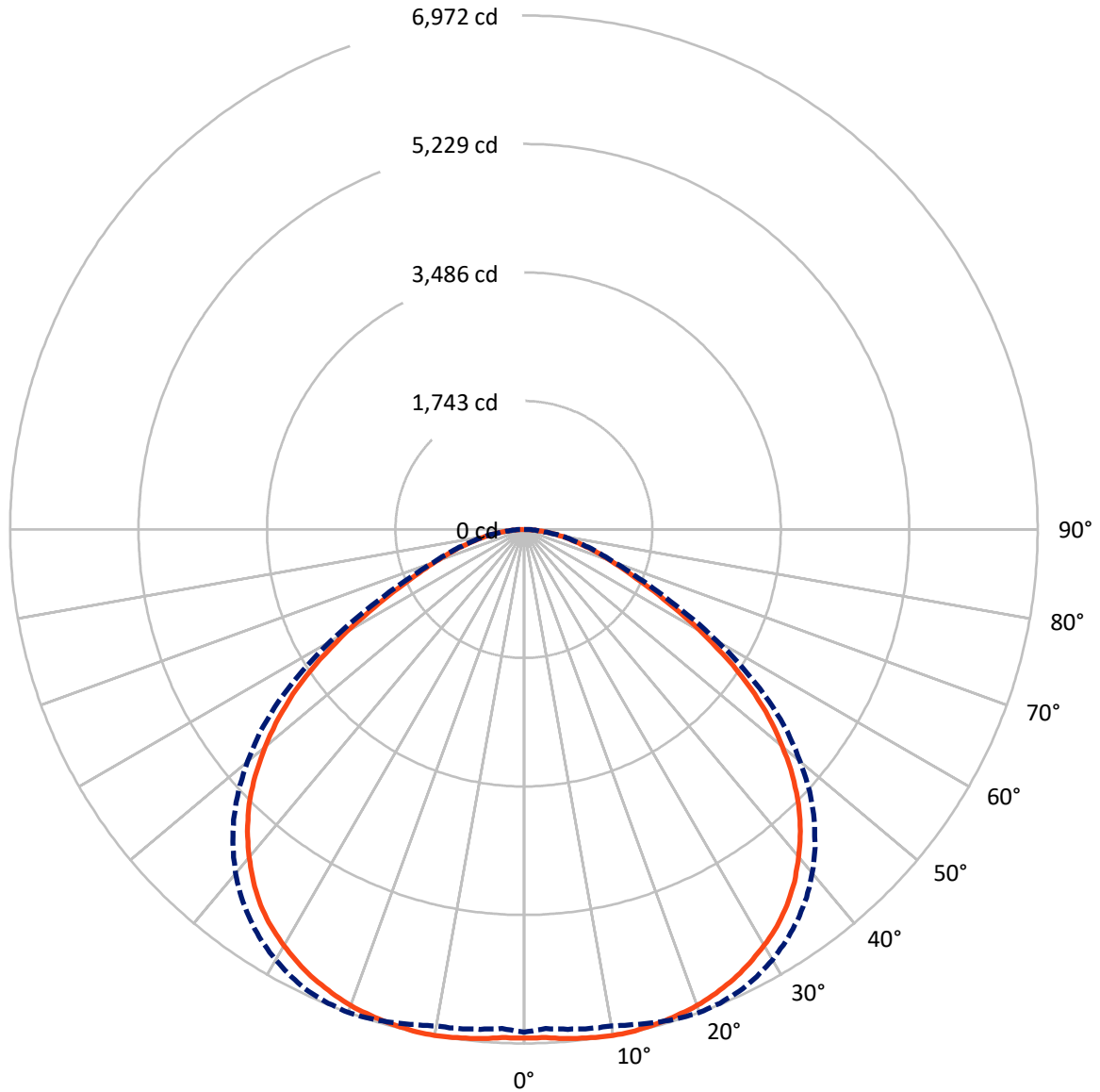
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Lumen Table



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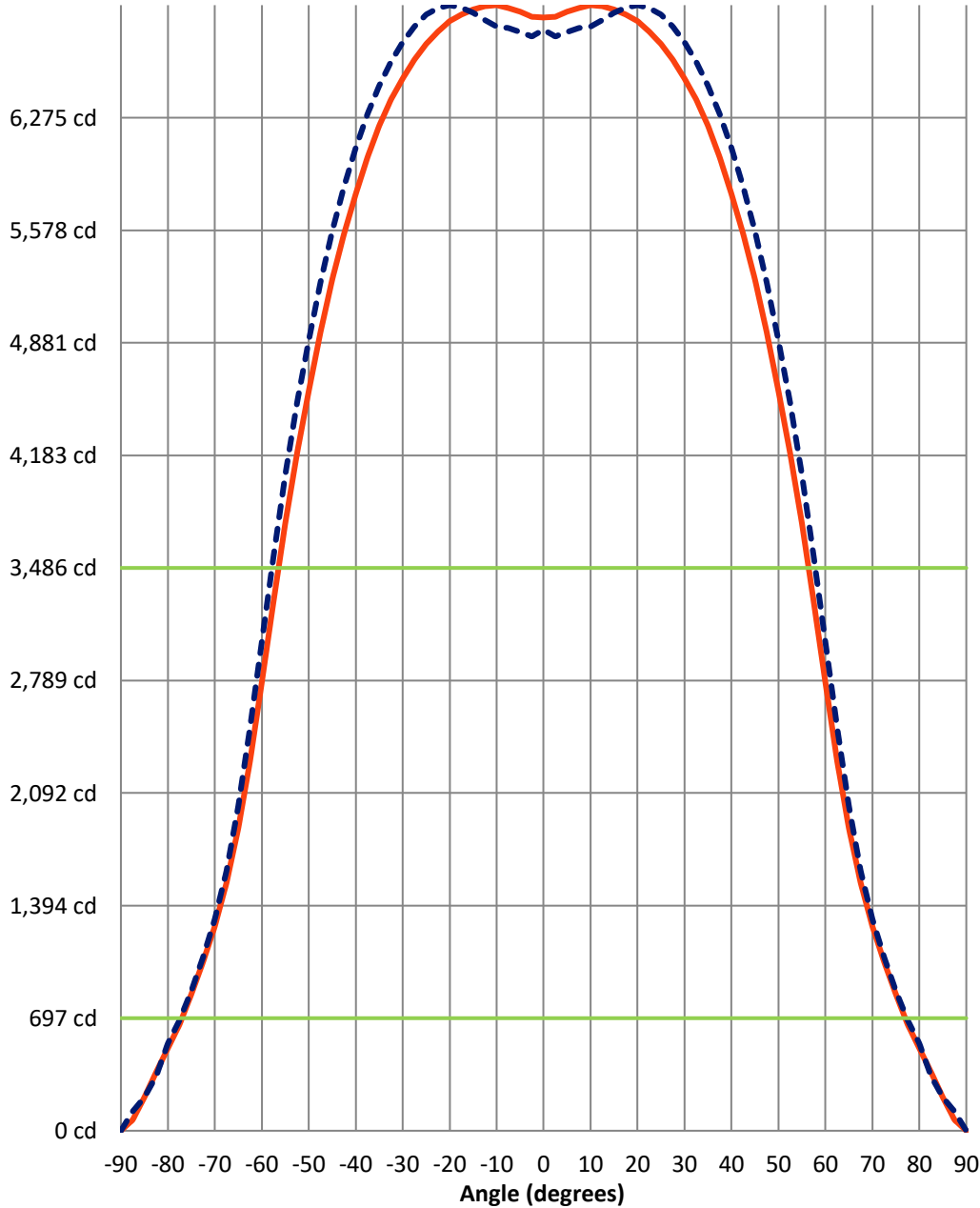
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 13125.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15734.9
 Efficiency: 73.6%

Spill:
 Lumens: 5654.9
 Efficiency: 26.4%

— Vertical Distribution through 20-Deg
 - - - Horizontal Distribution through 10-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.3	60.8	63.0	65.3	67.5	69.8	72.0	69.8	67.5	67.5	65.3
85°	150.8	155.3	157.5	173.3	189.0	198.0	209.3	207.1	207.1	204.8	202.6
82.5°	301.6	315.1	326.3	342.1	351.1	364.6	373.6	366.8	362.3	353.3	346.6
80°	535.6	540.1	542.4	544.6	533.4	531.1	526.6	519.9	510.9	499.6	488.4
77.5°	681.9	686.4	690.9	686.4	684.2	681.9	675.2	668.4	659.4	650.4	636.9
75°	902.5	902.5	902.5	895.7	891.2	884.5	873.2	862.0	846.2	828.2	807.9
72.5°	1136.5	1134.3	1132.0	1118.5	1107.3	1093.8	1078.0	1064.5	1046.5	1026.3	999.2
70°	1381.8	1386.3	1388.6	1370.6	1357.1	1339.1	1318.8	1294.1	1267.1	1237.8	1199.5
67.5°	1719.4	1714.9	1710.4	1685.7	1667.7	1642.9	1613.6	1577.6	1537.1	1492.1	1438.1
65°	2138.0	2144.8	2131.3	2106.5	2072.8	2032.3	1987.2	1935.5	1874.7	1807.2	1730.7
62.5°	2644.4	2655.7	2639.9	2608.4	2565.6	2511.6	2448.6	2374.3	2291.1	2196.5	2102.0
60°	3220.5	3218.3	3189.0	3146.3	3090.0	3022.5	2952.7	2871.7	2777.2	2666.9	2552.1
57.5°	3749.4	3744.9	3708.9	3666.2	3609.9	3537.9	3463.6	3378.1	3279.1	3162.0	3029.2
55°	4224.3	4219.8	4183.8	4138.8	4080.3	4008.2	3940.7	3859.7	3762.9	3639.1	3497.4
52.5°	4645.1	4647.4	4615.9	4566.4	4503.4	4433.6	4368.3	4287.3	4195.0	4071.3	3934.0
50°	5032.2	5030.0	4996.2	4951.2	4892.7	4825.2	4759.9	4678.9	4582.1	4462.9	4330.1
47.5°	5392.3	5387.8	5349.6	5300.1	5239.3	5180.8	5120.0	5048.0	4946.7	4827.4	4694.7
45°	5693.9	5684.9	5646.6	5599.4	5540.9	5489.1	5435.1	5381.1	5273.1	5162.8	5036.7
42.5°	5952.7	5950.5	5912.2	5864.9	5806.4	5761.4	5711.9	5644.4	5554.4	5453.1	5329.3
40°	6200.3	6182.3	6144.0	6099.0	6045.0	6006.7	5957.2	5889.7	5801.9	5702.9	5583.6
37.5°	6384.8	6387.1	6346.6	6297.1	6249.8	6213.8	6168.8	6105.8	6029.2	5932.5	5813.2
35°	6560.4	6549.1	6515.4	6472.6	6429.8	6389.3	6342.1	6288.1	6225.0	6135.0	6022.5
32.5°	6675.1	6690.9	6650.4	6605.4	6580.6	6549.1	6499.6	6443.3	6387.1	6297.1	6195.8
30°	6801.2	6787.7	6756.2	6717.9	6699.9	6679.6	6636.9	6582.9	6517.6	6436.6	6342.1
27.5°	6889.0	6882.2	6843.9	6807.9	6798.9	6780.9	6747.2	6699.9	6634.6	6555.9	6468.1
25°	6927.2	6931.7	6895.7	6875.4	6875.4	6864.2	6837.2	6796.7	6731.4	6659.4	6573.9
22.5°	6945.2	6940.7	6916.0	6911.5	6922.7	6913.7	6902.5	6866.4	6807.9	6749.4	6677.4
20°	6956.5	6925.0	6902.5	6920.5	6934.0	6931.7	6922.7	6900.2	6873.2	6823.7	6760.7
17.5°	6931.7	6911.5	6884.4	6911.5	6940.7	6943.0	6934.0	6920.5	6913.7	6882.2	6825.9
15°	6870.9	6855.2	6859.7	6886.7	6920.5	6931.7	6938.5	6954.2	6945.2	6920.5	6870.9
12.5°	6830.4	6810.2	6830.4	6857.4	6875.4	6882.2	6936.2	6965.5	6965.5	6943.0	6911.5
10°	6819.2	6778.7	6805.7	6830.4	6839.4	6879.9	6925.0	6956.5	6972.2	6954.2	6913.7
7.5°	6796.7	6769.7	6780.9	6792.2	6843.9	6873.2	6898.0	6931.7	6954.2	6952.0	6916.0
5°	6785.4	6751.7	6756.2	6803.4	6839.4	6859.7	6868.7	6898.0	6931.7	6938.5	6911.5
2.5°	6756.2	6740.4	6774.2	6778.7	6805.7	6821.4	6830.4	6857.4	6900.2	6916.0	6904.7
0°	6740.4	6717.9	6695.4	6713.4	6758.4	6792.2	6805.7	6846.2	6895.7	6911.5	6886.7



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	63.0	60.8	58.5	56.3	58.5	58.5	58.5	56.3	58.5	56.3	56.3
85°	195.8	186.8	180.0	171.0	162.0	155.3	146.3	137.3	135.0	132.8	128.3
82.5°	337.6	326.3	315.1	301.6	288.1	272.3	256.6	238.6	234.1	229.6	222.8
80°	474.9	459.1	443.4	427.6	414.1	398.3	380.3	360.1	346.6	335.3	321.8
77.5°	618.9	596.4	573.9	546.9	531.1	515.4	497.4	477.1	456.9	438.9	418.6
75°	783.2	758.4	735.9	708.9	679.7	650.4	621.2	594.1	564.9	537.9	510.9
72.5°	965.5	929.5	893.5	859.7	823.7	787.7	749.4	713.4	677.4	641.4	603.1
70°	1156.8	1111.8	1066.8	1021.8	974.5	927.2	882.2	837.2	792.2	744.9	702.2
67.5°	1381.8	1330.1	1271.6	1208.5	1138.8	1078.0	1019.5	965.5	911.5	857.5	803.4
65°	1663.2	1591.1	1512.4	1426.9	1345.8	1264.8	1179.3	1098.3	1035.3	972.2	911.5
62.5°	2009.7	1908.5	1798.2	1687.9	1588.9	1483.1	1384.1	1278.3	1179.3	1089.3	1015.0
60°	2423.8	2286.6	2151.5	2009.7	1872.5	1728.4	1602.4	1471.9	1348.1	1237.8	1129.8
57.5°	2880.7	2720.9	2558.9	2385.6	2198.8	2030.0	1859.0	1687.9	1541.6	1395.3	1273.8
55°	3344.3	3175.5	2993.2	2797.4	2592.6	2376.6	2144.8	1953.5	1753.2	1582.1	1424.6
52.5°	3785.4	3609.9	3420.8	3240.8	2995.5	2747.9	2493.6	2241.6	2007.5	1789.2	1597.9
50°	4179.3	4008.2	3825.9	3616.6	3389.3	3126.0	2842.5	2558.9	2282.1	2025.5	1786.9
47.5°	4539.4	4372.8	4190.5	3981.2	3774.2	3481.6	3195.8	2883.0	2574.6	2279.8	2000.7
45°	4877.0	4708.2	4519.1	4318.8	4080.3	3819.2	3524.4	3209.3	2878.5	2547.6	2225.8
42.5°	5183.0	5014.2	4822.9	4615.9	4379.6	4120.8	3834.9	3517.6	3184.5	2824.4	2471.1
40°	5450.8	5286.6	5102.0	4886.0	4665.4	4393.1	4111.8	3810.2	3465.9	3103.5	2714.2
37.5°	5684.9	5531.9	5349.6	5135.8	4901.7	4658.7	4368.3	4066.8	3756.2	3362.3	2964.0
35°	5892.0	5750.2	5563.4	5360.8	5131.3	4874.7	4602.4	4307.6	3972.2	3603.1	3216.0
32.5°	6072.0	5928.0	5756.9	5554.4	5331.6	5090.8	4811.7	4514.6	4197.3	3821.4	3400.6
30°	6225.0	6085.5	5923.5	5732.2	5518.4	5279.8	5007.5	4708.2	4384.1	4010.5	3594.1
27.5°	6357.8	6225.0	6067.5	5889.7	5684.9	5455.3	5180.8	4879.2	4548.4	4188.3	3771.9
25°	6472.6	6344.3	6198.0	6029.2	5826.7	5601.6	5342.8	5027.7	4696.9	4334.6	3922.7
22.5°	6576.1	6452.3	6306.1	6141.8	5957.2	5732.2	5471.1	5158.3	4822.9	4465.1	4060.0
20°	6668.4	6553.6	6409.6	6240.8	6056.2	5828.9	5570.1	5273.1	4935.5	4584.4	4183.8
17.5°	6742.7	6641.4	6497.4	6319.6	6135.0	5914.5	5662.4	5390.1	5032.2	4685.7	4287.3
15°	6794.4	6695.4	6564.9	6384.8	6204.8	5986.5	5734.4	5453.1	5120.0	4766.7	4372.8
12.5°	6830.4	6724.7	6603.1	6436.6	6256.5	6040.5	5795.2	5518.4	5194.3	4838.7	4447.1
10°	6839.4	6742.7	6621.1	6472.6	6297.1	6087.8	5846.9	5572.4	5255.0	4895.0	4507.9
7.5°	6843.9	6751.7	6641.4	6499.6	6326.3	6123.8	5885.2	5615.1	5300.1	4942.2	4552.9
5°	6841.7	6753.9	6654.9	6517.6	6344.3	6144.0	5910.0	5644.4	5331.6	4973.7	4586.6
2.5°	6834.9	6756.2	6663.9	6531.1	6364.6	6166.5	5934.7	5678.2	5365.3	5000.7	4613.6
0°	6852.9	6785.4	6668.4	6526.6	6369.1	6166.5	5932.5	5682.7	5369.8	4998.5	4611.4



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.3	54.0	54.0	51.8	49.5	47.3	42.8	40.5	36.0	29.3	22.5
85°	121.5	114.8	108.0	103.5	99.0	94.5	87.8	81.0	72.0	58.5	45.0
82.5°	213.8	200.3	186.8	171.0	157.5	144.0	132.8	121.5	108.0	87.8	67.5
80°	306.1	285.8	265.6	243.1	222.8	200.3	180.0	162.0	144.0	117.0	90.0
77.5°	398.3	371.3	342.1	315.1	285.8	256.6	227.3	202.6	175.5	144.0	112.5
75°	483.9	452.4	425.4	387.1	351.1	312.8	274.6	240.8	207.1	168.8	135.0
72.5°	569.4	528.9	490.6	454.6	414.1	366.8	324.1	281.3	238.6	193.5	153.0
70°	654.9	605.4	558.1	515.4	470.4	423.1	371.3	321.8	270.1	216.1	168.8
67.5°	742.7	686.4	632.4	578.4	526.6	472.6	418.6	362.3	301.6	238.6	186.8
65°	839.5	769.7	704.4	643.7	582.9	524.4	463.6	402.8	335.3	263.3	202.6
62.5°	936.2	859.7	783.2	706.7	639.2	573.9	508.6	441.1	366.8	290.3	218.3
60°	1039.8	952.0	864.2	778.7	695.4	623.4	551.4	479.4	400.6	315.1	234.1
57.5°	1154.5	1048.8	949.7	853.0	758.4	672.9	594.1	517.6	429.9	339.8	252.1
55°	1285.1	1154.5	1037.5	929.5	826.0	722.4	636.9	558.1	463.6	364.6	272.3
52.5°	1422.4	1271.6	1129.8	1008.2	898.0	780.9	677.4	589.6	497.4	389.3	290.3
50°	1582.1	1390.8	1233.3	1084.8	961.0	839.5	720.2	625.7	531.1	418.6	308.3
47.5°	1746.4	1534.9	1336.8	1174.8	1028.5	895.7	769.7	657.2	562.6	445.6	326.3
45°	1937.7	1672.2	1453.9	1262.6	1093.8	954.2	819.2	690.9	589.6	472.6	344.3
42.5°	2122.3	1834.2	1575.4	1359.3	1168.0	1010.5	864.2	726.9	616.7	499.6	360.1
40°	2340.6	1996.2	1692.4	1451.6	1242.3	1064.5	909.2	765.2	641.4	524.4	375.8
37.5°	2549.9	2160.5	1834.2	1552.9	1314.3	1118.5	954.2	801.2	663.9	549.1	396.1
35°	2756.9	2342.8	1969.2	1647.4	1388.6	1179.3	999.2	835.0	686.4	569.4	414.1
32.5°	2955.0	2513.9	2106.5	1753.2	1469.6	1235.6	1039.8	866.5	708.9	587.4	432.1
30°	3139.5	2675.9	2241.6	1861.2	1543.9	1287.3	1078.0	898.0	735.9	603.1	450.1
27.5°	3308.3	2833.4	2376.6	1962.5	1613.6	1334.6	1118.5	927.2	758.4	618.9	465.9
25°	3461.4	2975.2	2500.4	2054.8	1676.7	1386.3	1156.8	956.5	778.7	632.4	479.4
22.5°	3605.4	3105.8	2612.9	2147.0	1753.2	1438.1	1192.8	983.5	798.9	645.9	492.9
20°	3731.4	3225.0	2720.9	2239.3	1820.7	1485.4	1224.3	1008.2	817.0	654.9	506.4
17.5°	3832.7	3330.8	2817.7	2320.3	1879.2	1525.9	1251.3	1030.8	832.7	666.2	515.4
15°	3922.7	3420.8	2898.7	2390.1	1931.0	1559.6	1276.1	1048.8	846.2	672.9	526.6
12.5°	3999.2	3497.4	2968.5	2450.9	1976.0	1588.9	1296.3	1062.3	857.5	679.7	533.4
10°	4062.3	3558.1	3027.0	2498.1	2012.0	1611.4	1312.1	1075.8	866.5	686.4	540.1
7.5°	4109.5	3603.1	3069.8	2538.6	2041.3	1627.2	1325.6	1084.8	875.5	690.9	551.4
5°	4145.5	3641.4	3103.5	2565.6	2063.8	1649.7	1341.3	1096.0	884.5	695.4	551.4
2.5°	4172.5	3672.9	3130.5	2588.1	2081.8	1645.2	1341.3	1093.8	884.5	695.4	549.1
0°	4168.0	3675.2	3128.3	2588.1	2081.8	1640.7	1341.3	1091.5	884.5	695.4	549.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.8	11.3	4.5	0.0
85°	33.8	22.5	11.3	0.0
82.5°	49.5	31.5	15.8	0.0
80°	65.3	42.8	20.3	0.0
77.5°	83.3	54.0	27.0	0.0
75°	99.0	63.0	31.5	0.0
72.5°	114.8	74.3	36.0	0.0
70°	128.3	83.3	40.5	0.0
67.5°	141.8	94.5	47.3	0.0
65°	153.0	103.5	51.8	0.0
62.5°	162.0	114.8	56.3	0.0
60°	173.3	123.8	60.8	0.0
57.5°	182.3	130.5	65.3	0.0
55°	191.3	135.0	69.8	0.0
52.5°	200.3	141.8	74.3	0.0
50°	209.3	148.5	78.8	0.0
47.5°	218.3	153.0	81.0	0.0
45°	231.8	159.8	85.5	0.0
42.5°	243.1	164.3	90.0	0.0
40°	254.3	168.8	92.3	0.0
37.5°	265.6	173.3	96.8	0.0
35°	276.8	177.8	99.0	0.0
32.5°	285.8	182.3	101.3	0.0
30°	294.8	186.8	103.5	0.0
27.5°	303.8	189.0	105.8	0.0
25°	310.6	193.5	108.0	0.0
22.5°	317.3	195.8	110.3	0.0
20°	321.8	198.0	112.5	0.0
17.5°	328.6	200.3	114.8	0.0
15°	330.8	202.6	119.3	0.0
12.5°	335.3	204.8	119.3	0.0
10°	337.6	207.1	119.3	0.0
7.5°	342.1	207.1	119.3	0.0
5°	339.8	207.1	119.3	0.0
2.5°	339.8	207.1	119.3	0.0
0°	337.6	207.1	119.3	0.0

(END OF REPORT)